

Category	Subcategory	Value
CATIONS	Ca ²⁺	1.00
	Mg ²⁺	0.10
	Na ⁺	0.05
	K ⁺	0.05
	Li ⁺	0.05
	Fe ²⁺	0.05
	Fe ³⁺	0.05
	Al ³⁺	0.05
	Mn ²⁺	0.05
	Zn ²⁺	0.05
ANIONS	Cl ⁻	0.05
	SO ₄ ²⁻	0.05
	NO ₃ ⁻	0.05
	CO ₃ ²⁻	0.05
	HCO ₃ ⁻	0.05
	PO ₄ ³⁻	0.05
	SiO ₄ ⁴⁻	0.05
	BO ₃ ³⁻	0.05
	AlO ₂ ⁻	0.05
	OH ⁻	0.05

Methods are provided for increasing and altering the timing of antibiotic production in *Streptomyces* species, particularly *S. coelicolor* and *S. lividans*, by functionally deleting the *S. coelicolor* *scbA* and *scbR* genes, respectively, or their homologues. Also provided are strains having such mutations, and methods of producing antibiotics using such strains. Also provided are methods for identifying strains in which functional deletion of the *scbA* and/or *scbR* genes or their homologues leads to the above effects.